

# What are the consequences of the failure of the gland condenser fan of steam turbines?

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## 2 Answers



Shahid Suhaeyeb Abdullah, aware!!But dont care!!

Answered Mar 22, 2015



not much if both the valves

1. The supply valve : The one making low pressure steam from auxiliary steam to supply to turbine glands

2. The return valve : The one draining the excess pressure from turbine gland to condenser.

are working properly, then all you got to worry is the gland steam leaking upto atmosphere.

Because, if turbine is running, then it has its own leakage that would do self sealing and the rest will be dumped to condenser, and even then, the remaining is basically dragged into gland steam condenser.

And that's all the purpose of those fans, just to create enough suction pressure in gland condenser, so as to extract those remaining vapors and make the system as closed system.

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Chris Judge, 50 years an engineer

Answered Dec 11, 2016



The gland steam extraction fan will have to work harder. Gland sealing will probably be less efficient. If this results in more air getting into the LP turbine, this will only be noticed if the condenser air ejector fails to cope with the increased demand. If this proves to be the case, there could be some loss of vacuum and hence reduction in system efficiency. I'm afraid there are rather a lot of "ifs". It all depends on the design.